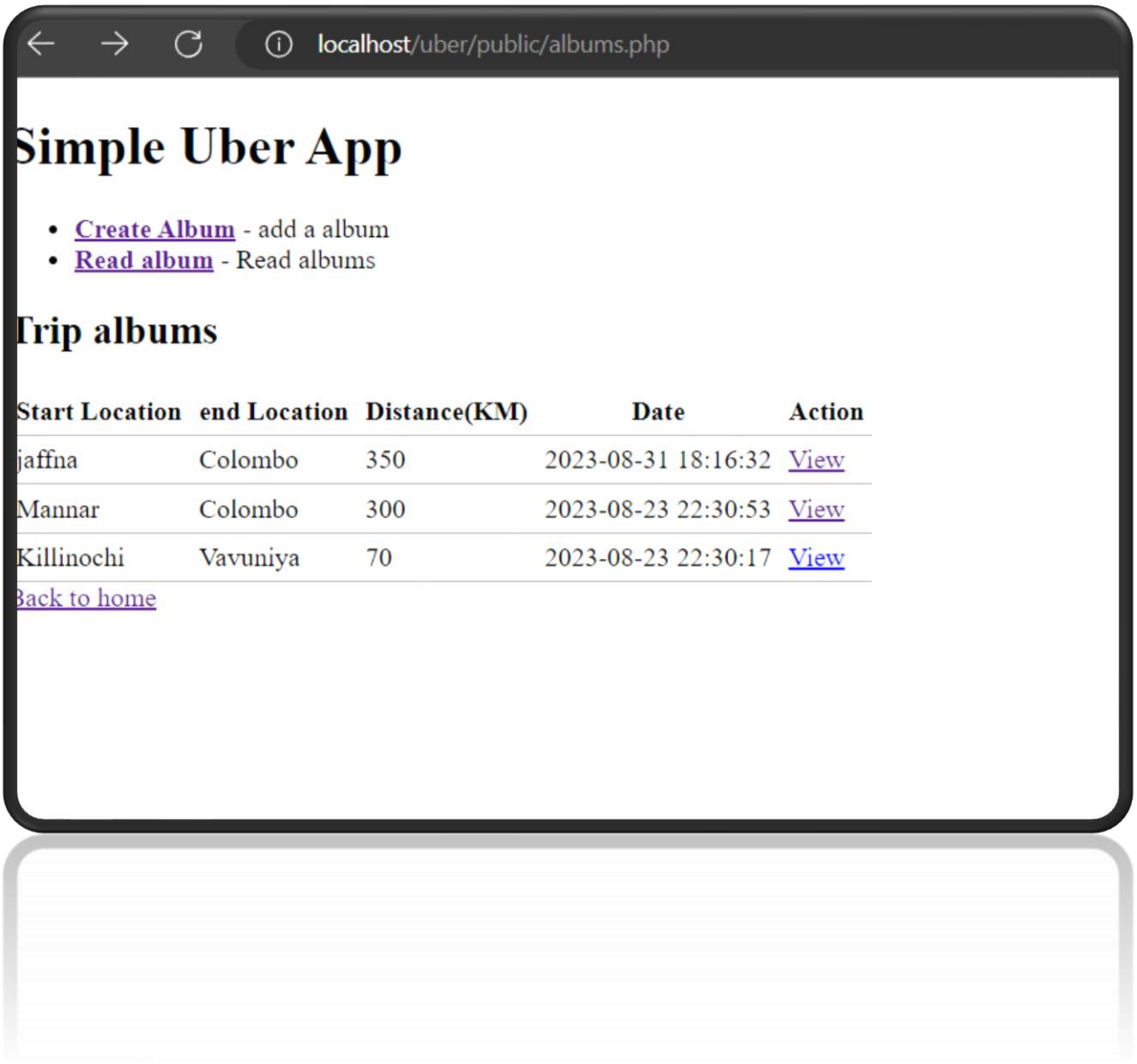
EC5070
DATABASE SYSTEMS
LAB SESSION 3&4

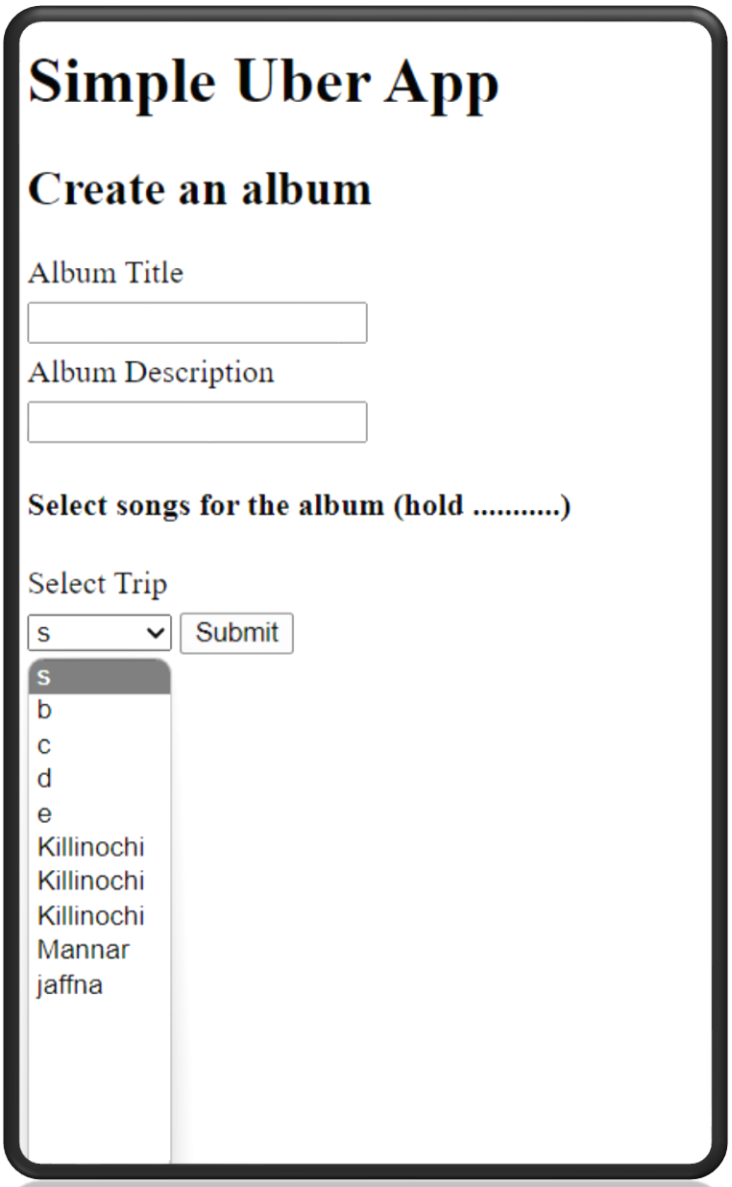
UZAIR U.M

GROUP B4

SEMESTER V

26 SEP 2023


localhost/uber/public/albums.php
Simple Uber App
Create Album - add a album
Read album - Read albums
Trip albums
Start Location
end Location
Distance(KM)
Date
Action
jaffna
Colombo
350
2023-08-31 18:16:32
View
Mannar
Colombo
300
2023-08-23 22:30:53
View
Killinochi
Vavuniya
70
2023-08-23 22:30:17
View
Back to home


Simple Uber App
Create an album
Album Title
Album Description
Select songs for the album (hold .....)
Select Trip
s
Submit
s
b
c
d
e
Killinochi
Killinochi
Killinochi
Mannar
jaffna

Simple Uber App

Create an album

Album Title

Descreption

Select song for the album.(hold .....)

Trip

create album

Back to home

Simple Uber App

- **Create Album** - add an album
- **Read Album** - Read albums

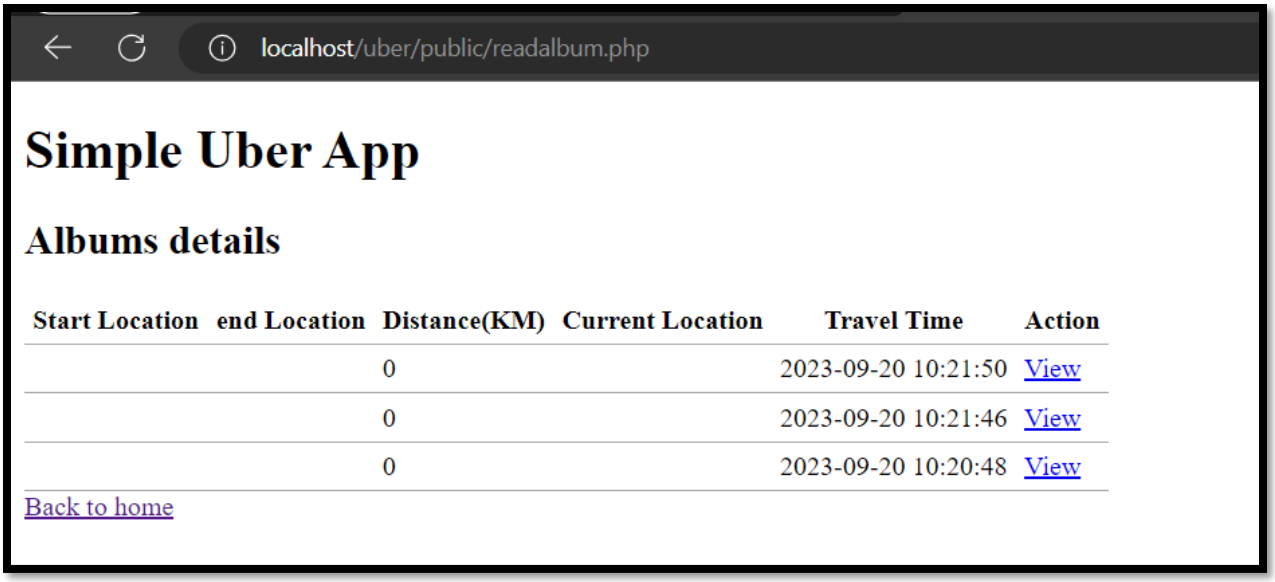
Latest Albums

Title	Description	Created Date	Action
sdf	sfgsgf	2023-09-20 16:02:42	View
sdf	sfgsgf	2023-09-20 16:01:26	View
hjjkn	fdgvb	2023-09-20 16:01:11	View

Latest Trip Albums

Trip Album ID	Album Title	Trip Start Location
19	sdf	jaffna
18	sdf	Mannar
17	sdf	Killinochi

Back to home



Albums

Album ID	Title	Description	Created Date
1	assa	saasssaas	2023-09-20 15:53:22
2	assa	saasssaas	2023-09-20 15:55:36
3	assa	saasssaas	2023-09-20 15:57:17
4	hjjkn	fdgvb	2023-09-20 15:57:29
5	hjjkn	fdgvb	2023-09-20 16:01:11
6	sdf	sfgsgf	2023-09-20 16:01:26
7	sdf	sfgsgf	2023-09-20 16:02:42

Back to home

Lab04

```
66  );
67  ALTER TABLE tripalbums
68      ADD selected_attribute VARCHAR (30);
69  CREATE INDEX idx_selected_attribute ON tripalbums(selected_attribute);
70
71
```

	tripalbumid	albumid	tid	selected_attribute
Edit Copy Delete	1	3	1	NULL
Edit Copy Delete	2	3	2	NULL
Edit Copy Delete	3	3	3	NULL
Edit Copy Delete	4	4	1	NULL
Edit Copy Delete	5	4	2	NULL
Edit Copy Delete	6	4	3	NULL
Edit Copy Delete	7	4	4	NULL
Edit Copy Delete	8	4	7	NULL
Edit Copy Delete	9	5	1	NULL
Edit Copy Delete	10	5	2	NULL
Edit Copy Delete	11	5	3	NULL
Edit Copy Delete	12	5	4	NULL
Edit Copy Delete	13	5	7	NULL
Edit Copy Delete	14	6	6	NULL
Edit Copy Delete	15	6	9	NULL
Edit Copy Delete	16	6	10	NULL
Edit Copy Delete	17	7	6	NULL
Edit Copy Delete	18	7	9	NULL
Edit Copy Delete	19	7	10	NULL
Edit Copy Delete	20	8	6	NULL
it Copy Delete	21	8	7	NULL

Simple Uber App

- **Create Album** - add an album
- **Read Album** - Read albums

Latest Albums

Title	Description	Created Date	Action
Northern province	start point	2023-09-21 08:21:53	View
sdf	sfgsgf	2023-09-20 16:02:42	View
sdf	sfgsgf	2023-09-20 16:01:26	View

Latest Trip Albums

Trip Album ID	Album Title	Trip Start Location
23	Northern province	jaffna
22	Northern province	Mannar
21	Northern province	Killinochi

Back to home

Simple Uber App

Album Title

Album Description

Select trips for the album (hold Ctrl/Cmd to select multiple)

Select Trips

s
b
c
d

Submit

Back to home

Simple Uber App

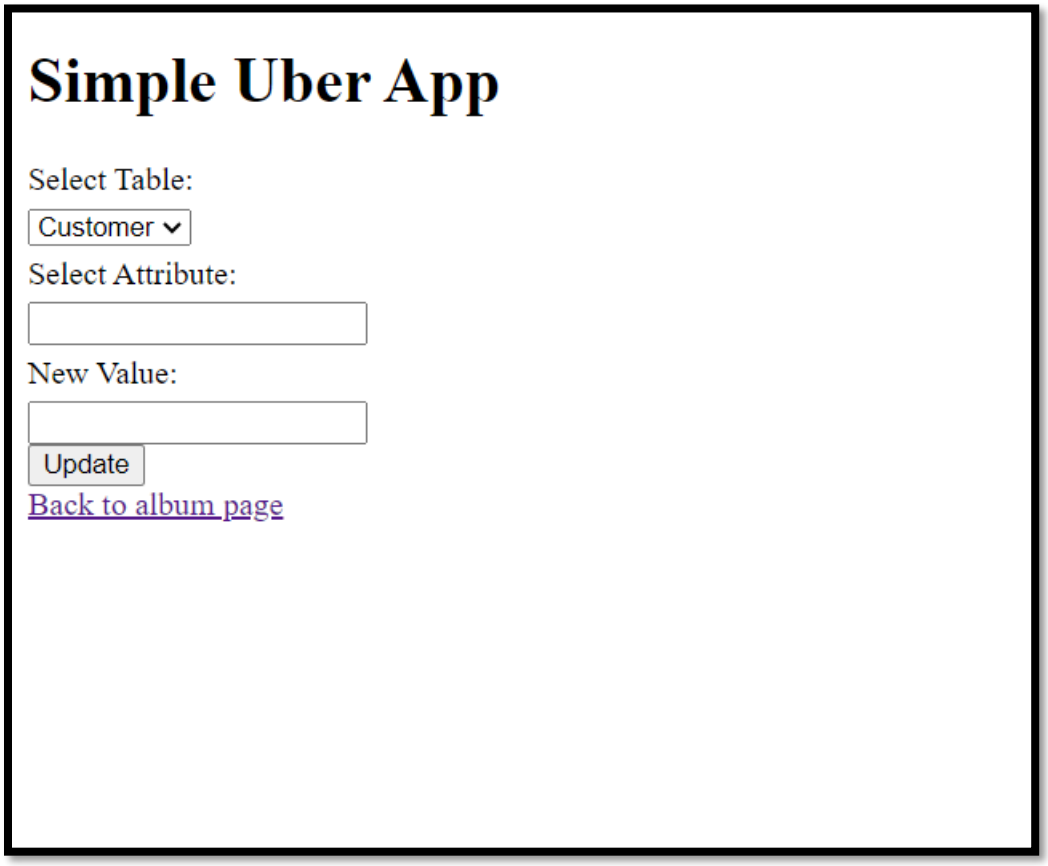
Album Details

Title	Northern province
Description	start point
Created Date	2023-09-21 08:21:53

Back to Albums

ACID properties (Atomicity, Consistency, Isolation, and Durability)

```php
<?php
try {
    require "../config.php";
    require "../common.php";

    $connection = new PDO($dsn, $username, $password, $options);

    if (isset($_POST['submit'])) {
        $selectedTable = $_POST['selected_table'];
        $selectedAttribute = $_POST['selected_attribute'];
        $newValue = $_POST['new_value'];

        // Validate input
        if (!in_array($selectedTable, ['customer', 'driver', 'trip', 'vehicle'])) {
            $errorMessage = "Invalid table selected.";
        } elseif (empty($selectedAttribute) || empty($newValue)) {
            $errorMessage = "Attribute and new value must not be empty.";
        } else {
            try {
                $connection->beginTransaction();

                // Step 1: Create an index for the selected attribute
                $indexName = "idx_" . $selectedTable . "_" . $selectedAttribute;
                $createIndexSql = "CREATE INDEX IF NOT EXISTS $indexName ON $selectedTable ($selectedAttribute)";
                $connection->exec($createIndexSql);

                // Step 2: Insert a new entity
                $insertSql = "INSERT INTO $selectedTable (column1, column2) VALUES (:value1, :value2)";
                $insertStatement = $connection->prepare($insertSql);
                $insertSuccess = $insertStatement->execute(array(':value1' => $value1, ':value2' => $value2));

                if ($insertSuccess) {
                    // Get the inserted entity ID
                    $entityId = $connection->lastInsertId();

                    // Step 3: Update the relationship table (adjust table and column names)
                    $updateSql = "UPDATE tripalbums SET selected_attribute = :new_value WHERE tripid = :entityId";
                    $updateStatement = $connection->prepare($updateSql);
                    $updateSuccess = $updateStatement->execute(array(':new_value' => $newValue, ':entityId' => $entityId));

                    if ($updateSuccess) {
                        // Commit the transaction if both steps are successful
                        $connection->commit();
                        $successMessage = "Data added and updated successfully!";
                    } else {
                        // Rollback the transaction if the update fails
                        $connection->rollBack();
                        $errorMessage = "Error: Data update failed.";
                    }
                } else {
                    // Rollback the transaction if the insert fails
                    $connection->rollBack();
                    $errorMessage = "Error: Data insertion failed.";
                }
            } catch (PDOException $error) {
                // Handle any exceptions or errors here
                $connection->rollBack();
                $errorMessage = "Error: " . $error->getMessage();
            }
        }
```

```
<?php require "templates/header.php"; ?>

<form method="post">
    <label for="selected_table">Select Table:</label>
    <select name="selected_table" id="selected_table">
        <option value="customer">Customer</option>
        <option value="driver">Driver</option>
        <option value="trip">Trip</option>
        <option value="vehicle">Vehicle</option>
    </select>
    <br>

    <label for="selected_attribute">Select Attribute:</label>
    <input type="text" name="selected_attribute" id="selected_attribute">
    <br>

    <label for="new_value">New Value:</label>
    <input type="text" name="new_value" id="new_value">
    <br>

    <input type="submit" name="submit" value="Update">
</form>

<!-- Display success or error message -->
<?php if (!empty($successMessage)): ?>
    <p style="color: green;"><?php echo $successMessage; ?></p>
<?php endif; ?>

<?php if (!empty($errorMessage)): ?>
    <p style="color: red;"><?php echo $errorMessage; ?></p>
<?php endif; ?>

<a href="albums.php">Back to album page</a>

<?php require "templates/footer.php"; ?>

```

Update album